

## **ABSTRACT**

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2       A ball sizer for a paint-ball gun includes a bore having an entrance. In the  
3 preferred embodiment, the bore has a chamfer, which in turn has a smooth transition from  
4 the entrance to the bore of the sizer. The transition may define a section of a parabola, a  
5 section of a circle, or a combination of a straight line with a transition to a curve, such as a  
6 section of a parabola or circle. Similar transitions may be provided at the exit of the ball  
7 sizer, and at the entrance to the barrel attached to the exit of the sizer, or both.